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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/980,430	03/29/2002	Aart Zeger van Halteren	47161-00031USPX	3407	
30223	7590 05/19/2004		EXAMI	NER	
JENKENS & GILCHRIST, P.C.			LE, HUY	LE, HUYEN D	
225 WEST WASHINGTON SUITE 2600		ART UNIT	PAPER NUMBER		
	CHICAGO, IL 60606		2643	: 0	
			DATE MAILED: 05/19/2004	13	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Application No. Applicant(s) Applicant(s) Application No. Applicant(s) Application No. Applic						
## Examiner ### HUYEN D. LE ### 2843 ### 2843 ### 2844 ### 2843 ### 2844 #		Application No.	Applicant(s)			
HUYEN D. LE	_	09/980,430	VAN HALTEREN ET AL.			
The MALLING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Exhansions of time may be available under the provisions of 3°CR1.13(a). In or event, however, may a re rely be timely filed Ethics before the may be available under the approximent of 1°CR1.13(a). In or event, however, may a re rely be timely filed Ethics period for reply aspecified shows is last than thirty (30) days, a reply within the statistary entired in 18 period for reply aspecified and reply aspecified and reply aspecified and reply aspecified for reply aspecified and reply aspecified for reply aspecified for reply aspecified and reply a	Office Action Summary	Examiner	Art Unit			
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Election/Restrictions

1. It appears that claims 8-11 and 27-36 are pending (see the Remarks filed 01/21/04). The withdrawn claims 12-26 should be canceled in the application.

Claim Rejections - 35 USC § 112

2. Claim 28 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 28 is dependent on the withdrawn claim 12.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 8-11, 27 and 29-36 are rejected under 35 U.S.C. 102(b) as being anticipated by Sone (U.S. patent 5,432,758).

Regarding claims 8 and 30, Sone teaches a coil assembly for an electroacoustic transducer which comprises a coil (20) and an electric circuit board (40, 42, 44, 48, 50, 52, figures 1, 2, 7, 8, 9). As shown in the drawings, at least a surface portion of the electric circuit board is positioned against the coil in a substantially perpendicular to the axis of the coil (20).

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Regarding claim 9, as broadly claimed, the printed circuit board (40, 42, 44, 48, 50, 52) is flexible (col. 4, lines 27-43, col. 6, lines 11-19 and lines 65-67).

Regarding claim 10, Sone teaches the printed circuit board which is rigid (col. 4, lines 15-18 and lines 27-33 and col. 6, lines 8-10).

Regarding claim 11, Sone shows the electric circuit board which includes an opening (58) as claimed.

Regarding claim 27, Sone teaches the surface portion of the electric circuit board which is positioned against the coil by adhesion (col. 4, lines 57-61 and col. 6, lines 61-68 through col. 7, lines 1-5).

Regarding claim 29, Sone teaches the electric circuit board which includes electronics for signal processing (col. 4, lines 30-41).

Regarding claims 31 and 36, Sone teaches a coil assembly for an electroacoustic transducer which comprises a coil (20) and an electric circuit board (40, 42, 44, 48, 50, 52, figures 1, 2, 7, 8, 9). As shown in the drawings, at least a surface portion of the electric circuit board is positioned against the coil in a substantially perpendicular to the axis of the coil (20). Further, Sone teaches the electric circuit board which includes electronics for signal processing (col. 4, lines 30-41).

Regarding claim 32, as broadly claimed, the printed circuit board (40, 42, 44, 48, 50, 52) is flexible (col. 4, lines 27-43, col. 6, lines 11-19 and lines 65-67).

Regarding claim 33, Sone teaches the printed circuit board which is rigid (col. 4, lines 15-18 and lines 27-33 and col. 6, lines 8-10).

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Regarding claim 34, Sone shows the electric circuit board which includes an opening (58) as claimed.

Regarding claim 35, Sone teaches the surface portion of the electric circuit board which is positioned against the coil by adhesion (col. 4, lines 57-61 and col. 6, lines 61-68 through col. 7, lines 1-5).

5. Claims 8-9 and 31-32 rejected under 35 U.S.C. 102(b) as being anticipated by Lee (U.S. patent 5,861,686).

Regarding claims 8 and 31, Lee teaches a coil assembly for an electroacoustic transducer which comprises a coil (8) and an electric circuit board (3b, figures 1, 2, 3). As shown in the drawings, at least a surface portion of the electric circuit board is positioned against the coil in a substantially perpendicular to the axis of the coil (8). The electric circuit board includes signal processing electronics (col. 3, lines 65-67).

Regarding claims 9 and 32, Lee teaches the electric circuit board (3b) is flexible (col. 3, lines 41-42 and lines 49-51).

6. Claim 8 is rejected under 35 U.S.C. 102(a) as being anticipated by Kuwabara et al. (U.S. patent 6,023,518).

Kuwabara teaches a coil assembly for an electroacoustic transducer which comprises a coil (22) and an electric circuit board (26, figures 1, 4, 5). As shown in the drawings, at least a surface portion of the electric circuit board is positioned against the coil in a substantially perpendicular to the axis of the coil (22).

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Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 9-10, 29 and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuwabara (U.S. patent 6,023,518).

Regarding claims 9-10 and 33, Kuwabara teaches a printed circuit board (26). Kuwabara does not specifically teach that the circuit board (26) is flexible or rigid as claimed. However, the examiner takes the Office Notice that providing a printed circuit board in an electronic device made of flexible or rigid material is very well known in the art.

Therefore, it would have been obvious to one skilled in the art to provide the circuit board (26) of Kuwabara which is made of flexible or rigid material for an alternate choice.

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Regarding claims 29 and 31, Kuwabara teaches a printed circuit board (26). Kuwabara does not specifically teach that the circuit board (26) includes signal processing electronics as claimed. However, the examiner takes the Office Notice that providing a printed circuit board in an electronic device included the electronic components for signal processing is very well known in the art.

Therefore, it would have been obvious to one skilled in the art to provide the circuit board (26) of the Kuwabara sound generator which includes the electronic components for processing the signals.

Response to Arguments

8. Applicant's arguments with respect to claims 8-11 and 27-36 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yoo et al. (U.S. patent 6,389,148) teaches a coil which is mounted on a terminal plate.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUYEN D. LE whose telephone number is (703)305-4844. The examiner can normally be reached on 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CURTIS KUNTZ can be reached on (703) 305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HL

May 14, 2004

PRIMARY EXAMINER